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Indian Standard

DIMENSIONS OF SPINDLES AND MOUNTING ARRANGEMENTS FOR SPINDLE OPERATED ELECTRONIC COMPONENTS

PART 1 SPINDLES

Section 3 Flatted Spindles

(Second Revision)

- **0. General** This standard shall be used in conjunction with IS: 4586 (Part 1/Sec 1)-1987 'Dimensions of spindles and mounting arrangements for spindle operated electronic components: Part 1 Spindles, Section 1 General and definitions (second revision)'.
- 1. Scope Covers dimensions of flatted spindles.
- 2. Dimensions See Table 1.

Adopted 10 June 1987

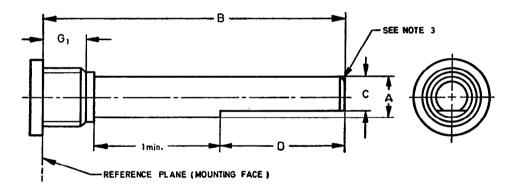
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TABLE 1 DIMENSIONS OF FLATTED SPINDLE

(Clause 2)

All dimensions in millimetres.



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Dimer (See Note		Dimension <i>B</i> (<i>See</i> Notes 1,2,6 and 7)								Dimension <i>C</i> (<i>See</i> Notes 4 and 6)		Dimension D	Dimension <i>G, Min</i> (<i>See</i> Note 8)	
General h11*	Precision h9*	10 ± 0.5	16 ± 0.5	20 ± 0.2	32 ± 0.5	34.5 ± 0.5	40 ± 1	50 ± 1	63 ± 1	80 ± 1	Screwed knob	Push-on knob		
3 -0.06	3 +0 -0.025	1	1	<u></u>	1	1					2.5 +0	2 +0 2 -0·1		No bush
3.5 +0	3.5 +0										2.4 +0	2.1 +0		4
<u>4</u> +0 -0.075	4 +0 -0.03						1				3.2 +0	3.0 +0	_	5
<u>6</u> +0 -0.075	6 +0.03							1	<u> </u>		5.0 +0	4.0 +0	4, 5 and 6 in increments of 2 mm	6:35, 9:5
6.32 -0.08 +0.03	6.35 +0										5 ⁻ 50 ± 0 ⁻ 13	5·50 ± 0·05	± 0.5	10
8 -0.09	8 -0.36									1	7.0 +0 -0.2	6.0 +0		
10 +0	10 +0				+	+	→	+	,		9.0 +0	7.0 +0		

Note 1—If intermediate values are required, they should preferably be chosen from R 20 series (mm) [see IS: 1076-1967 Preferred numbers (first revision)].

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Note 2— The tolerance on length may be \pm 2 mm for potentiometers with high rated dissipation.

Note 3 — Chamfer at 40°/50° or a radius for a depth of between 5 percent and 10 percent of dimension A.

Note 4 — For moulded or insulated spindles, the tolerance for dimension C push-on-knobs may require modification to obtain the required withdrawal forces. The components specification shall indicate the correct dimension.

Note $\mathbf{5}$ —The underlined dimensions are preferred diameters.

Note 6 — Attention is drawn to the fact that dimensions A and C are interrelated.

Note 7 — Values for dimension B are chosen from R 20 series (mm) [see IS: 1076-1967].

Note 8 - Fixing of bush may be done by pressing a 'C' washer in the groove cut on the spindle to a depth of 1 to 1.5 mm.

Note 9 — Dimensions apply to spindles after suitable finish.

*IS: 919 (Part 1) - 1963 Recommendations for limits and fits for engineering: Part 1 General engineering (first revision).